INTERNATIONAL SEARCH REPORT

Intermonal Application No PCT/EP 03/03977

A. CLASSIF	ICATION O	F SUBJECT	MATTER
TPC 7	H04M1	9/04	

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIFLDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 6 023 513 A (CASE ELIOT M) 8 February 2000 (2000-02-08)	1-4,6,7, 10,14
Υ	column 1, line 29 - line 41	8,9,13
À	column 3, line 25 - line 63 column 5, line 32 - line 43	5,11,12
Υ .	EP 1 161 076 A (KONINKL PHILIPS ELECTRONICS NV)	8,9,13
A	5 December 2001 (2001-12-05) column 3, line 7 - line 38	1-7, 10-12,14
	column 3, line 47 -column 4, line 21 column 4, line 32 - line 46	·
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Y Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
 Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the Invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 30 June 2003	Date of mailing of the international search report 07/07/2003
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Sorrentino, A

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		PCT/EP 03/03977		
Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
gory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
	EP 0 994 464 A (KONINKL PHILIPS ELECTRONICS NV) 19 April 2000 (2000-04-19) column 3, line 4 - line 25	1,2,4, 10,12,14 3,5-9,		
	column 3, line 43 -column 4, line 2 column 4, line 11 - line 40	11,13		
	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 06, 30 June 1997 (1997-06-30) & JP 09 055634 A (YAMAHA CORP), 25 February 1997 (1997-02-25) abstract	1,2,4,12		
	US 6 215 879 B1 (DEMPSEY MORGAN JAMES) 10 April 2001 (2001-04-10) abstract; figure 1	1-14		
	-			

INTERNATIONAL SEARCH REPORT

Information on patent family members

Interpolation No PCT/EP 03/03977

Patent document cited in search rep		Publication date		Patent family member(s)	Publication date
US 6023513	Α	08-02-2000	US	6335973 B1	01-01-2002
EP 1161076	A	05-12-2001	FR CN EP JP US	2807255 A1 1324200 A 1161076 A1 2002006845 A 2001034252 A1	05-10-2001 28-11-2001 05-12-2001 11-01-2002 25-10-2001
EP 0994464	A	19-04-2000	CN EP JP KR	1254221 A 0994464 A1 2000172300 A 2000028984 A	24-05-2000 19-04-2000 23-06-2000 25-05-2000
JP 09055634	А	25-02-1997	NON	E	
US 6215879	B1	10-04-2001	NON		